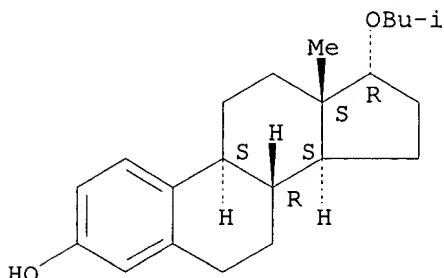


=> d 12 2 ibib hitstr abs

L2 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN
 ACCESSION NUMBER: 1989:121535 CAPLUS
 DOCUMENT NUMBER: 110:121535
 TITLE: High-performance liquid chromatographic analysis of the by-products of the synthesis of ethynylestradiol, mestranol, 17.alpha.-hydroxyprogesterone caproate and 17.alpha.-hydroxy-6-dehydroprogesterone acetate
 AUTHOR(S): Levchenko, N. K.; Osokin, D. M.; Torgov, I. V.; Arzamastsev, A. P.; Sokolova, T. M.; Tuguntaev, G. I.
 CORPORATE SOURCE: M. M. Shemyakin Inst. Bioorg. Chem., Moscow, 117871, USSR
 SOURCE: Journal of Chromatography (1988), 456(2), 427-30
 CODEN: JOCRAM; ISSN: 0021-9673
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 IT 119309-39-6, 17.alpha.-Isobutylestradiol
 RL: ANT (Analyte); ANST (Analytical study)
 (detn. of, in ethynylestradiol by HPLC)
 RN 119309-39-6 CAPLUS
 CN Estra-1,3,5(10)-trien-3-ol, 17-(2-methylpropoxy)-, (17.alpha.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



AB Impurities in the samples and mother liquors of title compds. were sep'd. by preparative HPLC on a Prep Pak silica column with a refractometric detector. The compds. were identified by spectral methods and detd. by anal. HPLC and TLC. Some of the impurities were estrone, estradiol and estrone Me ethers, 17.alpha.-isobutylestradiol.

09893324

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PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

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NEWS 4 AUG 05 New pricing for EUROPATFULL and PCTFULL effective August 1, 2003
NEWS 5 AUG 13 Field Availability (/FA) field enhanced in BEILSTEIN
NEWS 6 AUG 18 Data available for download as a PDF in RDISCLOSURE
NEWS 7 AUG 18 Simultaneous left and right truncation added to PASCAL
NEWS 8 AUG 18 FROSTI and KOSMET enhanced with Simultaneous Left and Right Truncation
NEWS 9 AUG 18 Simultaneous left and right truncation added to ANABSTR
NEWS 10 SEP 22 DIPPR file reloaded
NEWS 11 SEP 25 INPADOC: Legal Status data to be reloaded
NEWS 12 SEP 29 DISSABS now available on STN
NEWS 13 OCT 10 PCTFULL: Two new display fields added
NEWS 14 OCT 21 BIOSIS file reloaded and enhanced
NEWS 15 OCT 28 BIOSIS file segment of TOXCENTER reloaded and enhanced

NEWS EXPRESS OCTOBER 01 CURRENT WINDOWS VERSION IS V6.01a, CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0b(JP), AND CURRENT DISCOVER FILE IS DATED 23 SEPTEMBER 2003
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=> le reg

LE IS NOT A RECOGNIZED COMMAND

The previous command name entered was not recognized by the system.

09893324

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STRUCTURE FILE UPDATES: 10 NOV 2003 HIGHEST RN 614792-33-5
DICTIONARY FILE UPDATES: 10 NOV 2003 HIGHEST RN 614792-33-5

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2003

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

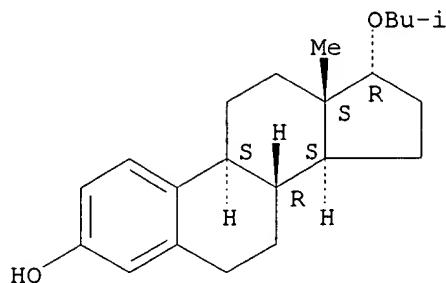
Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> s 119309-39-6/rn
L1 1 119309-39-6/RN

=> d 11

L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS on STN
RN 119309-39-6 REGISTRY
CN Estra-1,3,5(10)-trien-3-ol, 17-(2-methylpropoxy)-, (17.alpha.)- (9CI) (CA
INDEX NAME)
OTHER NAMES:
CN 17.alpha.-Isobutylestradiol
FS STEREOSEARCH
MF C22 H32 O2
SR CA
LC STN Files: CA, CAPLUS

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> file caplus		SINCE FILE	TOTAL
COST IN U.S. DOLLARS		ENTRY	SESSION
FULL ESTIMATED COST		2.48	2.69

FILE 'CAPLUS' ENTERED AT 12:07:41 ON 11 NOV 2003
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FILE COVERS 1907 - 11 Nov 2003 VOL 139 ISS 20
FILE LAST UPDATED: 10 Nov 2003 (20031110/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d 11 ibib hitstr abs
YOU HAVE REQUESTED DATA FROM FILE 'REGISTRY' - CONTINUE? (Y)/N:
YOU HAVE REQUESTED DATA FROM FILE 'REGISTRY' - CONTINUE? (Y)/N:y

'IBIB' IS NOT A VALID FORMAT FOR FILE 'REGISTRY'
'HITSTR' IS NOT A VALID FORMAT FOR FILE 'REGISTRY'
'ABS' IS NOT A VALID FORMAT FOR FILE 'REGISTRY'

The following are valid formats:

Substance information can be displayed by requesting individual fields or predefined formats. The predefined substance formats are: (RN = CAS Registry Number)

```

REG      - RN
SAM      - Index Name, MF, and structure - no RN
FIDE     - All substance data, except sequence data
IDE      - FIDE, but only 50 names
SQIDE    - IDE, plus sequence data
SQIDE3   - Same as SQIDE, but 3-letter amino acid codes are used
SQD      - Protein sequence data, includes RN
SQD3     - Same as SQD, but 3-letter amino acid codes are used
SQN      - Protein sequence name information, includes RN

CALC     - Table of calculated properties
EPROP    - Table of experimental properties
PROP     - EPROP and CALC

```

Any CA File format may be combined with any substance format to obtain CA references citing the substance. The substance formats must be cited first. The CA File predefined formats are:

```

ABS -- Abstract
APPS -- Application and Priority Information
BIB -- CA Accession Number, plus Bibliographic Data
CAN -- CA Accession Number
CBIB -- CA Accession Number, plus Bibliographic Data (compressed)
IND -- Index Data
IPC -- International Patent Classification
PATS -- PI, SO
STD -- BIB, IPC, and NCL

IABS --ABS, indented, with text labels
IBIB -- BIB, indented, with text labels
ISTD -- STD format, indented

OBIB ----- AN, plus Bibliographic Data (original)
OIBIB ----- OBIB, indented with text labels

SBIB ----- BIB, no citations
SIBIB ----- IBIB, no citations

```

The ALL format gives FIDE BIB ABS IND RE, plus sequence data when it is available.

The MAX format is the same as ALL.

The IALL format is the same as ALL with BIB ABS and IND indented, with text labels.

For additional information, please consult the following help messages:

```

HELP DFIELDS -- To see a complete list of individual display fields.
HELP FORMATS -- To see detailed descriptions of the predefined formats.
ENTER DISPLAY FORMAT (IDE):end

```

=> file caplus

09893324

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.42	3.93

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FILE COVERS 1907 - 11 Nov 2003 VOL 139 ISS 20
FILE LAST UPDATED: 10 Nov 2003 (20031110/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

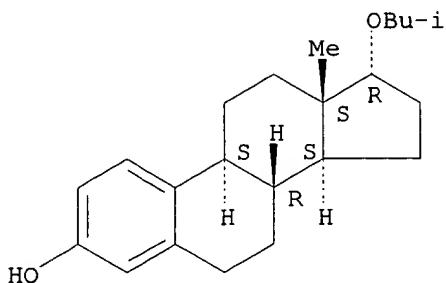
=> d 11
YOU HAVE REQUESTED DATA FROM FILE 'REGISTRY' - CONTINUE? (Y)/N:N

=> s 11
L2 2 L1

=> d 12 ibib hitstr abs

L2 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1990:429367 CAPLUS
DOCUMENT NUMBER: 113:29367
TITLE: HPLC determination of steroidal impurities in mestranol and ethynodiol
AUTHOR(S): Levchenko, N. K.; Osokin, D. M.; Torgov, I. V.;
Tuguntaev, G. I.; Sokolova, T. M.; Arzamastsev, A. P.
CORPORATE SOURCE: Inst. Bioorg. Khim. im. Shemyakina, Moscow, USSR
SOURCE: Khimiko-Farmatsevticheskii Zhurnal (1990), 24(3), 84-6
CODEN: KHFZAN; ISSN: 0023-1134
DOCUMENT TYPE: Journal
LANGUAGE: Russian
IT 119309-39-6, 17.alpha.-Isobutylestradiol
RL: ANT (Analyte); ANST (Analytical study)
(detn. of, as impurity in ethynodiol, by HPLC)
RN 119309-39-6 CAPLUS
CN Estra-1,3,5(10)-trien-3-ol, 17-(2-methylpropoxy)-, (17.alpha.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



AB After TLC sepn. on a Silufol UV254 plate and identification by using 10% phosphormolybdenic acid in EtOH, steroidal microimpurities were detd. in ethynylestradiol and mestranol by HPLC using different columns, mobile phases comprising EtOAc-CHCl₃, MeHO-CHCl₃, and CHCl₃-petroleum ether, and UV spectrophotometric detection at 254 nm. The method is suitable for the quality control of these drugs.

=> d 12 2 ibib hitstr abs

L2 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1989:121535 CAPLUS

DOCUMENT NUMBER: 110:121535

TITLE: High-performance liquid chromatographic analysis of the by-products of the synthesis of ethynylestradiol, mestranol, 17. α .-hydroxyprogesterone caproate and 17. α .-hydroxy-6-dehydroprogesterone acetate

AUTHOR(S): Levchenko, N. K.; Osokin, D. M.; Torgov, I. V.; Arzamastsev, A. P.; Sokolova, T. M.; Tuguntaev, G. I.

CORPORATE SOURCE: M. M. Shemyakin Inst. Bioorg. Chem., Moscow, 117871, USSR

SOURCE: Journal of Chromatography (1988), 456(2), 427-30

CODEN: JOCRAM; ISSN: 0021-9673

DOCUMENT TYPE: Journal

LANGUAGE: English

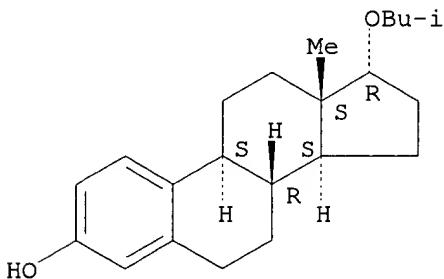
IT 119309-39-6, 17. α .-Isobutylestradiol

RL: ANT (Analyte); ANST (Analytical study)
(detn. of, in ethynylestradiol by HPLC)

RN 119309-39-6 CAPLUS

CN Estra-1,3,5(10)-trien-3-ol, 17-(2-methylpropoxy)-, (17. α .)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



AB Impurities in the samples and mother liquors of title compds. were sepd. by preparative HPLC on a Prep Pak silica column with a refractiometric detector. The compds. were identified by spectral methods and detd. by anal. HPLC and TLC. Some of the impurities were estrone, estradiol and estrone Me ethers, 17. α .-isobutylestradiol.